

WHAT IS CLAIMED IS:

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1. A radio communication system for a vehicle comprising:
2 a radio communication apparatus mounted on at least one helmet to be worn
3 by a passenger of said vehicle and including at least a speaker, a microphone and a
4 radio wave transmitter-receiver; and
5 a repeating apparatus mounted on said vehicle side for communicating with
6 said radio wave transmitter-receiver;
7 said radio communication apparatus mounted on said helmet communicating
8 with a second helmet through said repeating apparatus.

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1 2. The radio communication system for a vehicle according to claim 1,
2 wherein said repeating apparatus repeats mutual communication between two radio
3 communication apparatus mounted on each of the two helmets worn by passengers of
4 said vehicle and a radio communication apparatus mounted on a third helmet worn by
5 a person other than the passengers of said vehicle.

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1 3. The radio communication system for a vehicle according to claim 1,
2 wherein said radio wave transmitter-receiver is removably mounted at the center of a
3 rear portion of each helmet through a removable fixing member.

1 4. The radio communication system for a vehicle according to claim 2,
2 wherein said radio wave transmitter-receiver is removably mounted at the center of a
3 rear portion of each helmet through a removable fixing member.

1 5. The radio communication system for a vehicle according to claim 1,
2 wherein said repeating apparatus includes a mixing apparatus to which at least one
3 sound signal generation apparatus which generates a sound signal is connected and
4 which mixes a sound signal or signals outputted from said sound signal generating
5 apparatus with the received sound signal and transmits a resulting signal.

1 6. The radio communication system for a vehicle according to claim 2,
2 wherein said repeating apparatus includes a mixing apparatus to which at least one
3 sound signal generation apparatus which generates a sound signal is connected and
4 which mixes a sound signal or signals outputted from said sound signal generating
5 apparatus with the received sound signal and transmits a resulting signal.

1 7. The radio communication system for a vehicle according to claim 3,
2 wherein said repeating apparatus includes a mixing apparatus to which at least one
3 sound signal generation apparatus which generates a sound signal is connected and
4 which mixes a sound signal or signals outputted from said sound signal generating
5 apparatus with the received sound signal and transmits a resulting signal.

1 8. The radio communication system for a vehicle according to claim 4,
2 wherein said repeating apparatus has a mute function of selectively muting by
3 attenuating or interrupting at least one of the sound signals outputted from said sound
4 signal generation apparatus.

1 9. The radio communication system for a vehicle according to claim 4,
2 wherein said sound signal generation apparatus is at least one of a navigation system,
3 a portable telephone set, a music reproduction apparatus, some other radio apparatus
4 and a sound board.

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1 10. The radio communication system for a vehicle according to claim 5,
2 wherein said sound signal generation apparatus is at least one of a navigation system,
3 a portable telephone set, a music reproduction apparatus, some other radio apparatus
4 and a sound board.

1 11. The radio communication system for a vehicle according to claim 1,
2 wherein said radio wave transmitter-receiver has an antenna for radio communication
3 built therein.

1 12. The radio communication system for a vehicle according to claim 1,
2 wherein said radio wave transmitter-receiver has at least a circuit board and a battery
3 built therein, and said circuit board and a battery accommodation section are disposed
4 in such a manner as to be distributed to the left and the right when said radio wave
5 transmitter-receiver is mounted in a predetermined posture at the center of the rear
6 portion of each helmet.

1 13. The radio communication system for a vehicle according to claim 8,
2 wherein the size of said battery accommodation section corresponds to the magnitude
3 of a cell of a size of a AAA battery and is equivalent to that of said circuit board.

1 14. The radio communication system for a vehicle according to claim 1,
2 wherein said radio wave transmitter-receiver includes an operation button disposed on
3 a rear face thereof when said radio wave transmitter-receiver is mounted in a
4 predetermined posture at the center of the rear portion of each helmet.

1 15. The radio communication system for a vehicle according to claim 6,
2 wherein a display apparatus of said navigation system is supported for movement
3 between a use position and an accommodation position.

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C1*